

Title (en)
LOW DENSITY, HIGHLY POROUS NANO STRUCTURE

Title (de)
HOCHPORÖSE NANOSTRUKTUR VON NIEDRIGER DICHT

Title (fr)
NANOSTRUCTURE TRÈS POREUSE ET À FAIBLE DENSITÉ

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Application
EP 13741594 A 20130123

Priority
• US 201261589777 P 20120123
• US 2013022818 W 20130123

Abstract (en)
[origin: WO2013112643A1] The present invention relates to nanostructures having low-density and porous coatings that surround or are associated with at least one core nanoparticles. The structures are capable of carrying or associating with at least one payload within or on the surface of the nanostructures so that the structures can be used in applications such as medical diagnosis or therapeutic treatment.

IPC 8 full level
A61K 9/51 (2006.01); **A61K 49/00** (2006.01); **A61K 49/06** (2006.01); **A61K 49/18** (2006.01); **B22F 1/00** (2006.01); **B22F 1/02** (2006.01); **B22F 1/16** (2022.01); **B82B 1/00** (2006.01); **B82B 3/00** (2006.01); **C09K 11/02** (2006.01); **C22C 29/00** (2006.01); **B22F 1/054** (2022.01)

CPC (source: EP US)
A61K 49/0002 (2013.01 - EP US); **A61K 49/1887** (2013.01 - EP US); **B22F 1/16** (2022.01 - EP US); **H01F 1/01** (2013.01 - US); **A61K 9/5115** (2013.01 - EP US); **B22F 1/054** (2022.01 - EP US); **C22C 29/00** (2013.01 - EP US)

Citation (search report)
• [X] BEN LAN LIN ET AL: "Microstructural Characterization and Properties of Silica Aerogels Doped with Nano-ITO Powder", ADVANCED MATERIALS RESEARCH, vol. 284-286, 1 July 2011 (2011-07-01), pages 662 - 666, XP055207003, ISSN: 1022-6680, DOI: 10.4028/www.scientific.net/AMR.284-286.662
• [X] SOUZA K C ET AL: "Study of mesoporous silica/magnetite systems in drug controlled release", JOURNAL OF MATERIALS SCIENCE: MATERIALS IN MEDICINE, KLUWER ACADEMIC PUBLISHERS, BO, vol. 20, no. 2, 7 October 2008 (2008-10-07), pages 507 - 512, XP019680138, ISSN: 1573-4838
• [X] WUFENG CHEN ET AL: "Self-Assembly and Embedding of Nanoparticles by In Situ Reduced Graphene for Preparation of a 3D Graphene/Nanoparticle Aerogel", ADVANCED MATERIALS, vol. 23, no. 47, 15 December 2011 (2011-12-15), pages 5679 - 5683, XP055207080, ISSN: 0935-9648, DOI: 10.1002/adma.201102838
• See references of WO 2013112643A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2013112643 A1 20130801; WO 2013112643 A8 20140327; CN 104364188 A 20150218; CN 104364188 B 20161207; EP 2807112 A1 20141203; EP 2807112 A4 20150916; EP 2807112 B1 20211222; US 2015076392 A1 20150319; US 9711266 B2 20170718

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